

IN THE CLAIMS:

Claim 1 (Currently Amended): A recording media identifier comprising:

a measuring component, which irradiates a recording medium with a predetermined light to measure a speckle, caused by light irradiation, appearing on the recording medium which is made to vibrate;

a storage component, which stores information on speckles of recording media; and

an identifying component, which identifies types of recording media on the basis of the speckles measured by the measuring component and of information on speckles stored in the storage component.

Claim 2 (Original): The recording media identifier according to claim 1, wherein the identifying component identifies types of recording media based on speckle patterns.

Claim 3 (Original): The recording media identifier according to claim 1, wherein the identifying component identifies types of recording media on the basis of vectors representing movements in speckles.

Claim 4 (Original): The recording media identifier according to claim 3, wherein the vectors representing movements in speckles are obtained through cross-correlation.

Claim 5 (Original): The recording media identifier according to claim 1, wherein the measuring component measures the speckle in each of a plurality of different measuring conditions.

Claim 6 (Original): The recording media identifier according to claim 5, wherein the plurality of measuring conditions differs in accordance with positions of the recording medium at times of measurement.

Claim 7 (Currently Amended): The recording media identifier according to claim 6, wherein the measuring component measures the recording medium at different positions as by moving the recording medium vibrates.

Claim 8 (Cancelled).

Claim 9 (Currently Amended): The recording media identifier according to claim [[8]] 1, wherein the measuring component makes the recording medium vibrate by making a housing component containing the recording medium vibrate.

Claim 10 (Original): The recording media identifier according to claim 9, wherein the measuring component uses a motor to make the housing component vibrate.

Claim 11 (Original): The recording media identifier according to claim 1, wherein the identifying component identifies each of a plurality of recording media of the same type.

Claim 12 (Original): The recording media identifier according to claim 1, wherein:

the recording medium, when irradiated with a predetermined light, scatters light which includes a speckle; and

the measuring component includes:

an irradiating component, which irradiates a predetermined light;

a plurality of light-receiving components arranged in a predetermined direction in a mutually spaced manner, which receives the light, caused by predetermined light irradiation, scattered from the recording medium, and outputs signals having an intensity corresponding to the luminous intensity of the scattered light received by the light-receiving components; and

a signal processing component, which binarizes the signals outputted from each of the plurality of light-receiving components and outputs binary signals.

Claim 13 (Original): The recording media identifier according to claim 12, wherein a direction, in which a center of an area in which light is received by each of the plurality of the light-receiving components travels on the recording medium, corresponds with a direction in which the recording medium is conveyed.

Claim 14 (Currently Amended): A recording device comprising:

(a) a recording media identifier, including

a measuring component, which irradiates a recording medium with a predetermined light to measure a speckle, caused by light irradiation, appearing on the recording medium which is made to vibrate,

a storage component, which stores information on speckles of recording media, and

an identifying component, which identifies types of recording media on the basis of the speckles measured by the measuring component and of information on speckles stored in the storage component; and

(b) a recording component, which records an image on a recording medium by printing.

Claim 15 (Original): The recording device according to claim 14, wherein the recording component adjusts recording conditions to correspond to types of recording media identified by

the recording media identifier.

Claim 16 (Original): The recording device according to claim 14, further comprising a fixing component which fixes, onto the recording medium, an image recorded by the recording component, wherein the measuring component measures the speckle before fixing of the recorded image onto the recording medium is carried out by the fixing component.

Claim 17 (Original): The recording device according to claim 16, wherein the fixing component of the recording device adjusts fixing conditions to correspond to types of recording media identified by the recording media identifier.

Claim 18 (Original): The recording device according to claim 14, further comprising a fixing component which fixes, onto the recording medium, an image recorded by the recording component, wherein the measuring component measures the speckle after fixing of the recorded image onto the recording medium has been carried out by the fixing component.

Claim 19 (Original): The recording device according to claim 14, further comprising a conveyor component, which conveys the recording media, and wherein the measuring component measures a speckle while the recording medium is not being conveyed by the conveyor component.

Claim 20 (Original): The recording device according to claim 14, further comprising a conveyor component, which conveys the recording media, and wherein the measuring component measures a speckle while the recording medium is being conveyed by the conveyor component.